

### Resources

- Well Equipped Laboratories
- Greenhouses and Growth Chambers
- About 100 ha pasture and forests
- Tractors and other field equipment

#### Silvopastoral Researchers

- Dave Belesky, Forage Agronomist, Shade
- Doug Boyer, Hydrologist, Water Quality
- Charlie Feldhake, Microclimate
- Jorge Ferreira, Browse Medicinal
- Javier Gonzalez, Soil Chemist, Tannins
- Jay Halverson, Soil Ecologist, Tannins
- Jim Neel, Animal Scientist
- Rich Zobel, Root Ecology, Genetics

# Accomplishments: Forest into Silvopasture

- PAR and Water partitioning between trees and forages
- Forage growth under tree shade
- Fecal coliform and nitrate transport
- Sheep performance in silvopastures
- Tree leaf litter decomposition
- Soil modification with time after establishing silvopastures

# Accomplishments: Pasture into Silvopasture

- Forage growth and microclimate under Black Locust
- Forage growth under Black Walnut and Honey Locust (VA Tech)
- Sheep performance under Black Walnut and Honey Locust (VA Tech)
- Soil Modification by trees (VA Tech)

#### Needs

- Current program emphasizes forage production to support animal growth
- Lacking equipment for harvesting and processing woody material
- Lacking expertise to evaluate bioenergy potential of our systems.